

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/664,105	i	09/17/2003	John Andrew Gladysz	030557 4775		
26285	7590	12/12/2006	•	EXAMINER		
		LOCKHART NICI	PUTTLITZ, KARL J			
535 SMITH PITTSBURG				ART UNIT PAPER NUMBER		
	- · · · ·			1621		

DATE MAILED: 12/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	Applicant(s)					
	10/664,105	GLADYSZ ET AL.	GLADYSZ ET AL.					
Office Action Summary	Examiner	Art Unit						
·	Karl J. Puttlitz	1621						
The MAILING DATE of this communicate Period for Reply	ion appears on the cover sheet v	rith the correspondence ad	dress					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsive to communication(s) filed on	n 15 September 2006.							
· ·	·							
3) Since this application is in condition for	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>1-70</u> is/are pending in the appli	Claim(s) 1-70 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-70</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction	and/or election requirement.							
Application Papers								
9) The specification is objected to by the Examiner.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-9) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application 						

DETAILED ACTION

The outstanding rejection over Wende is withdrawn in view of the Declaration under Rule 1.132 showing that the disclosed matter common to the claims was Applicant's own work, thus disqualifying the reference as prior art under section 102(a) since the subject matter disclosed by Wende relevant to the claims was not "by another".

The following is a new ground of rejection is now entered, since the examiner has reconsidered the Vaughn reference:

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-70 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,815,390 to Vaughn.

Vaughn teaches a new catalyst system for fluorous biphasic catalysis processes comprising functionalized plastic beads, monodisperse SiO₂ or SiO₂ flakes associated with the catalyst in the fluorous phase.

The plastic beads, monodisperse SiO₂ or non-porous SiO sub.2 flakes are functionalized with a) partially fluorinated chains, or b) perfluoro chains, or c) hydrocarbon chains, or d) branched systems containing perfluoro, hydrocarbon or partially fluorinated chains, each having C1-30 atoms, and wherein groups like

Art Unit: 1621

cycloalkyl or aromatic rings--optionally being substituted by one or more fluorine atoms or fluorinated groups--may be present.

The patent teaches that the catalysts may be applied to any catalytic reaction like catalytic hydroformylation, hydroboration, C--C coupling, epoxidation, oxidation, reduction and alkylation and others.

The difference between the process covered in the rejected claims and the process disclosed by Vaugh is that Vaughn fails to explicitly teach that the recited processes can be carried out in a non-fluorous medium. However, Vaughn teaches that as the organic solvent the typical organic solvents normally used in organic chemistry may be chosen. Preferred solvents are for example hexane, toluene, benzene, alcohols, dimethylsulfoxide or ethers like tetrahydrofuran. Moreover, the patent teaches that catalytic and stoichiometric reactions can be carried out in the fluorous biphase system. the simplest version being a two-phase mixture consisting of a perfluorcarbon (PFC) and a non-fluorinated solvent. Accordingly, the use of a non-fluorous medium is well within the motivation of those of ordinary skill, based on Vaughn, and is therefore, prima facie obvious.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl J. Puttlitz whose telephone number is (571) 272-0645. The examiner can normally be reached on Monday to Friday from 9 a.m. to 5 p.m.

Art Unit: 1621

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K. Page, can be reached at telephone number (571) 272-0602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl J. Puttlitz

Assistant Examiner